



**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION FOR**  
**RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT, 2015**

Roll Number

**BOTANY, PAPER-I**

<b>TIME ALLOWED: THREE HOURS</b> <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-I (MCQS)</b> <b>PART-II</b>	<b>MAXIMUM MARKS = 20</b> <b>MAXIMUM MARKS = 80</b>
<b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b> <b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b> <b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b> <b>(iv) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b> <b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b> <b>(vi) Extra attempt of any question or any part of the attempted question will not be considered.</b>		

**PART-II**

- Q. No. 2.** Explain the biological and economic importance of algae. **(20)**
- Q. No. 3.** Give the symptoms and development of stem rust of wheat. Also mention the measures to control the disease. **(20)**
- Q. No. 4.** Explain characteristic features of gametophyte and sporophyte generations in Bryophytes. **(20)**
- Q. No. 5.** Describe the life cycle of genus Pinus. **(20)**
- Q. No. 6.** What are Pteridophytes, explain their characteristic features, their habitat, and alternation of generation? **(20)**
- Q. No. 7.** Explain the Anatomy of epidermis and cortex of root in higher plants. **(20)**
- Q. No. 8.** Write down a comprehensive note on any **TWO** of the followings: **(10 each) (20)**
- (a) Chemotaxonomy.
- (b) Engler and Prantel System of Classification.
- (c) Differences in vascular system of stem of monocot and dicot plants.

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